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| U. S. PATENT AND TRADEMARK OFFICE<br>U.S. DEPARTMENT OF COMMERCE<br><br><b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>   |   | ATTORNEY'S DOCKET NUMBER<br>21140YP                                 |
|   |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/526178</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/US03/27892   | INTERNATIONAL FILING DATE<br>5 September 2003 | PRIORITY DATE CLAIMED<br>11 September 2002                          |
| TITLE OF INVENTION<br>PIPERAZINE UREA DERIVATIVES AS MELANOCORTIN-4 RECEPTOR AGONISTS   |   |   |
| APPLICANT(S) FOR DO/EO/US<br>RAMAN K. BAKSHI, RAVI P. NARGUND, BRENDA L. PALUCKI, MIN K. PARK, and ZHIXIONG YE  |   |   |
| <p><b>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</b></p> <ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>3. <input type="checkbox"/> This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below.</li><li>4. <input checked="" type="checkbox"/> The US has been elected (PCT Article 31).</li><li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed [35 U.S.C. 371(c)(2)]<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li><li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li></ol></li><li>6. <input type="checkbox"/> An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto</li><li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li></ol></li><li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)].<ol style="list-style-type: none"><li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li></ol></li><li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].</li><li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].</li><li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].</li></ol> <p><b>Items 11 to 20 below concern other document(s) or information included:</b></p> <ol style="list-style-type: none"><li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li><li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li><li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li><li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li><li>15. <input type="checkbox"/> A substitute specification.</li><li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li><li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li><li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li><li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li><li>20. <input type="checkbox"/> Other items or information:</li></ol> |   |   |

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| U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/526178</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/US03/27892                               |            | ATTORNEY'S DOCKET NUMBER<br>21140YP  |              |
| The following fees are submitted:  |              |   |            | CALCULATIONS                         | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee.....\$300   |              |   |            | \$300.00                             |              |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....\$100<br>All other situations.....\$200  |              |   |            | \$100.00                             |              |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.....\$100<br>International Search Report prepared and provided to the Office.....\$400<br>All other situations.....\$500 |              |   |            | \$100.00                             |              |
| TOTAL OF 21, 22 and 23=  |              |   |            | \$500.00                             |              |
| <input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.                              |              |   |            |                                      |              |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |                                      |              |
| 153 - 100 =  | 53 /50       | 1.06 = 2  | X \$250.00 | \$500.00                             |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)].   |              |   |            |                                      |              |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE       |                                      |              |
| Total Claims   | 35 - 20 =    | 15  | X \$50.00  | \$750.00                             |              |
| Independent Claims   | 1 - 3 =      | 0   | X \$200.00 | \$0.00                               |              |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |   | + \$360.00 |                                      |              |
| TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)   |              |   |            | =                                    | \$1,750.00   |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |   |            | +                                    |              |
| TOTAL NATIONAL FEE   |              |   |            | =                                    | \$1,750.00   |
| Fee for recording the enclosed assignment [37 CFR 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.  |              |   |            | +                                    |              |
| TOTAL FEES ENCLOSED  |              |   |            | =                                    | \$1,750.00   |
|  |              |   |            | Amount to be refunded:               |              |
|  |              |   |            | Amount to be charged:                |              |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.   |              |   |            |                                      |              |
| b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>13-2755</u> in the amount of <u>\$1,750.00</u> to cover the above fees.<br>A duplicate copy of this sheet is enclosed.  |              |   |            |                                      |              |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. <u>13-2755</u> . A duplicate copy of this sheet is enclosed.  |              |   |            |                                      |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status.  |              |   |            |                                      |              |
| SEND ALL CORRESPONDENCE TO:  |              |   |            |                                      |              |
| Customer No. 000210  |              |   |            |                                      |              |
| MERCK & CO., INC.<br>Patent Department, RY60-30<br>P.O. Box 2000<br>126 East Lincoln Avenue<br>Rahway, New Jersey 07065-0970   |              |   |            |                                      |              |
| DATE: <u>February 28, 2005</u>   |              |   |            |                                      |              |
| PHONE #: <u>(732)594-0672</u>  |              |   |            |                                      |              |
|  |              |   |            | <u>Baerbel R. Brown</u><br>SIGNATURE |              |
|  |              |   |            | BAERBEL R. BROWN<br>NAME             |              |
|  |              |   |            | 47,449<br>REGISTRATION NUMBER        |              |